"EMPIRE"

HIGH FREQUENCY GENERATOR

ALL BRITISH MANUFACTURE

SOLE AGENTS TO THE DENTAL PROFESSION :—

CLAUDIUS ASH, SONS & CO., Ltd.,

5/12 BROAD STREET, GOLDEN SQUARE,

LONDON, W. 1.

"EMPIRE"

HIGH FREQUENCY

GENERATOR

Sole Manufacturers:

A. C. COSSOR LTD.

ABERDEEN WORKS, ABERDEEN LANE,

HIGHBURY GROVE

LONDON, N. 5.

Telegrams:
"Amplifiers, 'Phone, London."

Telephone:
North, 1385/6

Also Manufacturers of Scientific Instruments, Incandescent Electric Lamps, "X"-Ray Tubes and Glass Apparatus.

JOHN BELLOWS, GLOUCESTER 10349

SERVICE

It is our desire that our Apparatus should entirely fulfil our customer's requirements, and we therefore solicit inquiries as to any special purposes to which it is desired to apply the Machines.

Every assistance will be given by our Agents in the various parts of the Country to purchasers and users, and in addition, our travelling demonstrators will be pleased to advise on the use of the Machine so that the best results may be obtained.

Appointments for such demonstrations can be made through our local agents, with any of the Trade Houses or Dealers, or by communicating with us direct.

If you cannot readily obtain new applicators or replacements, please tell us, and we will make arrangements to obviate this inconvenience.

TERMS

The prices quoted in this List are net retail prices, the cost of cases and packing will be charged at cost, and credited in full if returned in good condition, carriage paid, within twenty-eight days.

Owing to the prevailing unstable conditions, we cannot bind ourselves to adhere to the prices given in this List. Orders will be executed at the prices ruling at the date of our acceptance.

All goods will be consigned at customer's risk, and will be sent carriage forward or the cost of carriage charged on the invoice.

Every care is exercised in packing and checking that the correct quantities are present in any consignment. Should any shortages occur claims can only be entertained if made within three days from receipt of goods.

So that any improvements or developments may be embodied in the apparatus or any part thereof, we reserve ourselves the right to introduce any such modifications without notice and to substitute such modified apparatus for that shewn in this List.

A. C. COSSOR LTD.

INTRODUCTION

The judicious use of Electricity of very high frequency has proved a wonderful asset in alleviating suffering.

In disorders arising from the derangement of the nerve system, the application of High Frequency Current is either a certain cure or a wonderful palliative, and will rapidly diminish pain.

It is particularly efficacious in such cases as :—

Bruises	Faulty Metabolism	Paralysis
Chilblains	Gout	Rheumatism
Diseases of the Skin	Lumbago	Sciatica
Falling Hair	Neuritis	Sprains
	Pyorrhea	

By stimulating the local nerve centres and thus producing a healthy blood circulation, it is a specific for many scalp disorders which cause the hair to fall out and prevent normal healthy growth.

With special Electrodes the current can be concentrated on very small areas and used for the removal of warts.

Providing the usual antiseptic precautions of cleansing are taken, High Frequency Current successfully combats the ravages of Pyorrhea, and greatly strengthens the gums.

High Frequency Current is a strong germicide, and is, therefore, suitable for treating many other ailments than those enumerated.

There is not the slightest danger from its use, and the application is painless.

No Massage Department is now considered complete without a High Frequency Apparatus.

The Machine is mounted in a well finished polished case, and as it weighs only a few pounds, it can be carried to bedside cases.

THE
"EMPIRE" H. F. GENERATOR

DESCRIPTION

This Machine has been specially designed so that it may be safely manipulated by anyone non-conversant with Electrical Apparatus.

Other than the Switch for turning the current "on" and "off," there is only one moving portion, consequently, there is nothing to get out of order, and skilled adjustment is quite unnecessary to obtain satisfactory results. It can be operated by attaching the Connecting Plug to an ordinary Electric Light Holder in exactly the same manner as one would insert an Electric Light Bulb.

The intensity of the High Frequency Current from the machine can be varied as required, by simply moving the adjustment provided on the ebonite resonator handle.

The high voltage high frequency discharge is obtained from the Transformer in the Ebonite Handle. This carries a spring socket into which may be inserted various glass applicators used for administering the treatment

All the cables leading both to and from the Machine are highly insulated and carry only low voltage current. There is, therefore, no possibility of any danger from shocks.

The Machine is mounted in a strong, well finished case, with nickel-plated fittings and leather carrying handle, and is complete with ~~one Surface Applicator, one Rake Applicator and one Metal Saturator~~ 9 Bourdon Electrodes

Price, for 100-250 volts alternating or continuous current circuits.. .. .. **£16 16 0**

Price, ~~without adjustment on Resonator Handle~~ **£15 15 0**

Complete with 5 useful Electrodes fitted in lid 18.7.6.

INSTRUCTIONS FOR USE

The " Empire " Machine is intended to be worked from the ordinary Electric Light Supply. The current consumed is very small, less than that of an ordinary lighting lamp.

Attach the plug adaptor of the machine to an electric light pendant in place of the ordinary lighting lamp, and observe the voltage of the electric light supply, which will be found marked on the lamp.

For voltages below 150, place the short circuiting plug in the resistance socket on the machine. For voltages above 150, place the tubular lamp resistance in the resistance socket.

See that the switch on the machine is in the " off " position, then switch on the current at the electric light switch.

Remove the ebonite handle from the case, insert the applicator to be used and switch on the current by turning the switch on the machine. Note from the glow and slight brushing or sparking that takes place from the applicator, whether the intensity of the current is too great for the particular treatment to be given. This can be best determined by testing on the palm of the hand. If the intensity of the current is not exactly as required, it can be altered by moving in the required direction, adjustment provided on the ebonite resonator handle. To obtain the maximum discharge the adjustment on the ebonite handle should be moved to the position of greatest strength. The white milled head on the top of the generator should then be turned either to the right or left until the position of maximum discharge from the resonator is obtained.

A slight brushing or sparking will take place when the applicator is applied to the skin. This can be prevented by placing the glass applicator in contact with the part to be treated before switching on the current.

It is preferable always to start with a weak current and to gradually work up to the required strength, than to apply the full discharge straight away. After a little practice the desired intensity of current will be easily judged by the appearance of the Electrode and the particular note of the Generator.

Never leave the Generator after use with the current switched on, as should someone inadvertently screw down the milled knob it would result in the Generator being damaged if left in this condition for some time.

In the machines without the sliding adjustment on the resonator handle the intensity of the discharge should be regulated by turning the white milled head on top of the generator.

TREATING INSTRUCTIONS

The following treatments are those which may be safely given in the case of the diseases specified. They by no means exhaust the field of usefulness of High Frequency Currents, but the maximum benefits can only be derived through the application being aided by a proper knowledge of the characteristics of the various disorders. It is advisable, therefore, to consult a Medical Practitioner, and to carry out such treatment under his advice.

For special treatment of any of the various diseases of the Teeth and Gums, reference should be made to the numerous articles which have been published in the Medical Press, and by the principal workers on the application of High Frequency Currents in Dental Science.

ASTHMA.

Use the Ozone Inhaler with a heavy discharge for five or six minutes two or three times a day.

BRONCHITIS.

Use Intensifying Applicator No. 2 with a fairly strong current and apply treatment to chest and back for five to six minutes through three or four layers of linen, also use Ozone Inhaler for ten to twelve minutes.

COLD IN HEAD.

Treat with Nose Applicator No. 10 for four to five minutes, also apply current about the face and forehead and back of head and neck for twenty minutes, using No. "00" Applicator.

The use of the Ozone Inhaler also produces great relief.

CATARRH (NASAL).

Use Nasal Applicator No. 10 within the nose, applying a mild current for five to six minutes. Treat outside with No. 00 or No. 2, from five to seven minutes, using rather a strong current and making good skin contact. Also use Ozone Inhaler with medium current for five to six minutes.

CRAMP.

Treat area affected with Applicator No. 2 for eight to ten minutes, using medium current.

DISEASE OF THE GUMS.

Treat for five to six minutes with Applicator No. 30, using a mild current.

After adjusting the current it is best to place the applicator in contact with the gums before switching on. Keep the applicator in good contact with the gums and continually moving.

DISEASES OF THE STOMACH AND INTESTINES

Dyspepsia.

Use Surface Applicator No. 00 and treat over the entire stomach and abdomen from ten to twelve minutes with a strong current.

Treat three to four times per week.

Gastritis.

Use Intensifying Applicator No. 2 and treat over stomach, abdomen and chest for twelve to fifteen minutes, using a strong current.

Treat each morning and evening.

FACE MASSAGE.

Use either Applicator No. "00" or "0" from five to eight minutes, passing the applicator all over the face and neck, always keeping it firmly against the skin. Treat twice daily or every other day.

If used after shaving, it is a wonderful tonic for the skin.

HAIR AND SCALP.

To generally tonic the scalp and promote hair growth

(1) Hold the Metal Saturator No. 13 in the hand, using a weak current to commence with, and gradually increase the strength with successive treatments. The scalp should then be thoroughly massaged by a second person. This will promote healthy circulation and greatly strengthen the hair growth and prevent the hair falling. To effect any marked alteration in the condition of the hair, about twelve treatments, taken at regular intervals, are necessary.

(2) Thoroughly comb the hair with a Rake or Comb Applicator (No. 4 or No. 5), for five to ten minutes a day.

Dandruff.

(3) Thoroughly comb the hair with a Rake or Comb Applicator (No. 4 or 5), for six to eight minutes a day, using a weak current and gradually increasing as the subject becomes more used to the high frequency discharge. This will remove the dandruff, leaving it loose in the hair from which it should be thoroughly combed or brushed.

HEADACHES.

Use the Surface Applicator No. oo and treat with a fairly strong current over the seat of pain, keeping the Applicator moving for about five to seven minutes at a time. Also use Intensifying Applicator No. 2 over the stomach, back, neck and spine, treating with medium current for seven to eight minutes.

HAY FEVER.—Treat as for Asthma.

INFLUENZA.

Use Applicator No. o or No. 2 and apply strong current for three to four minutes over the entire chest, throat, shoulders, back and shoulder blades. Alternatively, treat for three to four minutes with a strong current, using the Saturator Electrode.

LUMBAGO.

Treat with Intensifying Applicator No. 2 with a strong current over pain centre, moving the body so as to produce the pain during treatment. Although rather painful, this treatment rapidly alleviates the suffering.

MUSCULAR RHEUMATISM.

Treat with Intensifying Applicator No. 2 over the seat of pain, using a strong current. The patient should move the affected part of the body while treatment is proceeding. Keep the applicator constantly moving and making very light contact with the skin.

Should the skin become sore, postpone treatment for two to three days. Treatment should last thirty minutes daily.

MUSCULAR SORENESS.

Treat with Metal Saturator No. 13 for fifteen to twenty minutes, using medium current, and for five to eight minutes with applicator No. 00 over affected muscle.

NEURASTHENIA.

Treat with Intensifying Applicator No. 2, back of neck and over abdomen, from eight to ten minutes, using medium current and making good skin contact. Vary treatment by using Metal Saturator No. 13 with medium current for ten to twelve minutes.

NEURALGIA.

Treat with Intensifying Applicator No. 2 over seat of pain for five to eight minutes, using strong current and barely touching the skin with applicator.

Also use Metal Saturator No. 13 for twelve to fifteen minutes.

PARALYSIS.

Use Intensifying Applicator No. 2 and treat over paralysed muscle, using a strong current. Keep applicator constantly moving and treat from eight to twelve minutes daily.

RHEUMATISM.

Apply Applicator No. 2 to seat of pain using a fairly strong current and making but slight contact with the skin. Treat for ten to twelve minutes daily.

RHEUMATIC ARTHRITIS.

Treat as for above.

SCIATICA.

Treat with Intensifying Applicator No. 2, using a strong current for the lower part of the spine and over the whole of the thigh, leg and foot, also over lower part of abdomen. Keep the applicator moving lightly over the sensitive parts or seat of pain and treat from fifteen to twenty minutes.

SYNOVITIS.

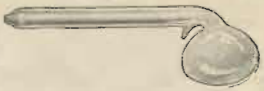
Treat with Applicator No. 00 for ten to twelve minutes, using medium current and scarcely touching the skin with the applicator.

WARTS, MOLES AND BLACKHEADS.

Use Fulguration Electrode No. 9, using a medium current for thirty-five to forty-five seconds. The electrode should be adjusted so that the central wire is located immediately above the blemish to be removed. Should a slight soreness be present after treatment, a lapse of three to four days should be allowed before further treatment is given. Large warts usually require four to six treatments.

HIGH FREQUENCY APPLICATORS

"00" Surface Electrodes, Ordinary Vacuum 6/-



"0" Surface Electrode, Medium Vacuum 6/-

No. 1 Surface Electrode, High Vacuum 6/6

No. 2 Intensifying for deep seated ailments 18/6

No. 3 External Throat .. 9/-

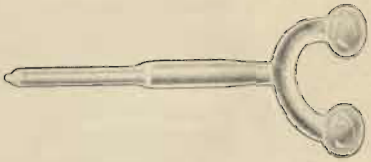
No. 4 Straight Comb .. 10/6

No. 5 Rake Comb Type 10/6

No. 6 Spinal 9/6

No. 7 Single Eye .. **7/6**

No. 8 Double Eye .. **12/-**



No. 9 Fulguration .. **8/6**

No. 10 Nasal Insulated.. **10/6**

No. 11 Ear Insulated .. **12/-**

No. 12 Internal Throat Insulated .. **10/6**

No. 13 Saturator, Metal.. **10/-**

No. 14 Tongue **12/-**

No. 15 Urethral Plain .. **8/-**

No. 16 Urethral Insulated **12/-**

No. 17 Vaginal Plain .. 8/-

No. 18 Vaginal Insulated 15/-

No. 19 Vaginal Perforated 15/-

No. 20 Rectal Plain, ⅜" dia. 5/-

No. 21 Rectal Plain, ½" dia. 6/-

No. 22 Rectal Plain, 1⅛" dia. 8/-

No. 23 Rectal Insulated 12/6

No. 24 Hemorrhoidal Plain 5/-

No. 25 Hemorrhoidal Plain, ¾" dia. 6/-

No. 26 Hemorrhoidal Plain, ⅞" dia. 8/-

No. 27 Cataphoretic Insulated (front teeth), **12/-**

No. 28 Cataphoretic Insulated (Back Teeth) **12/-**

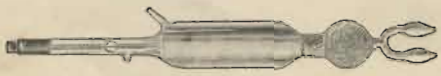
No. 29 Dental Local .. **12/-**

No. 30 Gum **12/-**

No. 31 Pyorrhea **12/-**

No. 32 Cavity **12/-**

No. 33 Ozone Inhaler, complete with Rubber Valve **42/-**



"EMPIRE"

HIGH FREQUENCY GENERATOR

ALL BRITISH MANUFACTURE

SOLE AGENTS TO THE DENTAL PROFESSION :—

CLAUDIUS ASH, SONS & CO., Ltd.,

5/12 BROAD STREET, GOLDEN SQUARE,

LONDON, W. 1.